

Title (en)  
PROCESS FOR PREPARING A DIENE COPOLYMER HAVING A POLYETHER BLOCK, REINFORCED RUBBER COMPOSITION AND TYRE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES DIENECOPOLYMERS MIT EINEM POLYETHERBLOCK, VERSTÄRKTE  
KAUTSCHUKZUSAMMENSETZUNG UND REIFEN

Title (fr)  
PROCÉDÉ DE PRÉPARATION D'UN COPOLYMÈRE DIÉNIQUE À BLOC POLYÉTHÉR, COMPOSITION DE CAOUTCHOUC RENFORCÉE ET  
PNEUMATIQUE

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Application  
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Abstract (en)  
[origin: WO2009000752A1] The invention relates to a process for preparing, in one step, a diene block copolymer, of which at least one of these blocks is constituted of a polyether for which the number-average molecular weight is essentially from 100 to 5000 g/mol, and at least another of these blocks is constituted of a diene elastomer. The process according to the invention allows a high degree of grafting of the polyether to the polymer chains. The present invention also relates to a reinforced rubber composition, especially intended for manufacturing tyres, comprising such a block copolymer that is intended to interact with the reinforcing filler. A rubber composition according to the invention has improved hysteresis properties in the vulcanized state, while retaining satisfactory processing properties in the non-vulcanized state.

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